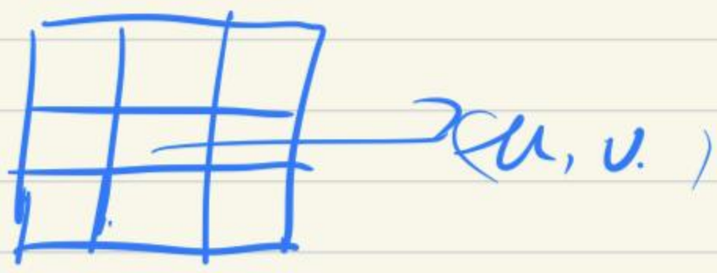
(c)

$y^R = W^T \cdot z^K$.

$y_j^R = W_j^T z^K$.



↓ ↦ 10 x 1 matrix. and $0 \le K \le 10000$.

⇓

$z^K(u,v) = [x(u-1,v-1), x(u,v-1), \cdots\cdots, x(u+1,v+1)]$

$Y_j(u,v) = W_j^T \cdot z^K(u,v)$

$= W_j^T \cdot [x(u-1,v-1), \cdots\cdots, x(1-u+1, v+1)]^T$

(d) each 100x100 image gives 10,000 samples.

So there are 100 0,000 samples.